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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/672,118	09/26/2003	Jong-Hoon Oh	2003P52610US/I331.111.101 7741		
75	590 09/22/2004	EXAMINER			
Dicke, Billig & Czaja, PLLC			HOANG, HUAN		
Suite 2250 Fifth Street Tov	vers	ART UNIT	PAPER NUMBER		
100 South Fifth		2818			
Minneapolis, MN 55402			DATE MAILED: 09/22/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	. Applicant(s)				
Office Action Summan.		10/672,1		OH, JONG-HOON				
Office Action Summary				Art Unit				
		Huan Ho	_	2818				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on	<u></u> .						
2a)□	This action is FINAL . 2b)⊠ Th	nis action is n	action is non-final.					
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
 4) Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-7,9-14,16-22 and 24-27 is/are rejected. 7) Claim(s) 8,15 and 23 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 								
Applicati	on Papers							
9) The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
Attachmen								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)			4) Interview Summary Paper No(s)/Mail Da					
3) 🔯 Inforr	r No(s)/Mail Date <u>051704</u> .	8)	5) Notice of Informal P 6) Other:		D-152)			

DETAILED ACTION

Claim Objections

1. Claims 1-8 are objected to because of the following informalities:

The word "arrange" (claim 1, line 2) should be "arranged". Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 3. Claims 1, 2, 4-7, 9, 11-14, 16, 17, 19-22, 24 and 26 are rejected under 35 U.S.C. 102(a) as being anticipated by admitted prior art.

The admitted prior art (Figs. 1 and 2) shows a random access memory, a wordline circuit, a row decoder and a method of reducing leakage current of a driver circuit having all the elements and steps as recited in claims1, 2, 4-7, 9, 11-14, 16, 17, 19-22, 24 and 26 as follows:

- an array of memory cells;
- a wordline circuit receiving a positive voltage at a voltage node (Vpp, node 60), receiving a decoding signal representative of an idle mode at a decoding node (specification, page 2, lines 20-28), and providing to at least one of the

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rows of memory cells a word line signal (bMWL) based on the decoding signal and forming a leakage path from the voltage node to a reference node when the decoding signal indicated the idle mode (specification page 3, lines 3-11).

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The reference node is considered node 62 in Fig. 2.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 3, 10, 18, 25 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art

The only difference between claims 3, 10, 18, 25 and 27 is that the reference node is a ground reference. However, the use of a ground voltage or a negative voltage is well-known in the art for a reference voltage in order to provide a voltage difference between two power supply nodes and this is disclosed by Arimoto et al. (column 9, lines 7-8). It would have been obvious to one having ordinary skill in the art at the time the invention was made to use a ground voltage instead of a negative voltage for a reference voltage to provide a voltage difference between two power node in a memory device.

Allowable Subject Matter

6. Claims 8, 15, and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art does not each or suggest the detailed output block as recited in claims 8,15 and 23.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan Hoang whose telephone number is (571) 272-1779. The examiner can normally be reached on Mon-Fri 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David C Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Huan Hoang Primary Examiner Art Unit 2818

HH 9/20/04.